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L8	25	6 and (@rlad < "20040219" or @ad < "20040219")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 09:19
L9	2588	8and (conditions near (sub\$1query sub adj1 query))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 09:19
L10	0	8 and (conditions near (sub\$1query sub adj1 query))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 09:19
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S1	8	"Floyd-Warshall" and (transitive adj1 closure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/03 15:52
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S5	4	"5727196".pn. "5899993".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/03 16:11
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Publisher: ACM PressFull text available: [pdf\(11.22 MB\)](#) Additional Information: [full citation](#),

methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.

2 [Exploiting perception in high-fidelity virtual environments: Exploiting perception in high-fidelity virtual environments](#)
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 Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez
 July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**
Publisher: ACM Press
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The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques in collaboration, graphical, auditory, and haptic rendering. We aim to show how human perception is exploited to achieve realism in high fidelity environments within the constraints of available finite computational resources. In this course w ...


Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

3 [Special issue: AI in engineering](#)
 D. Sriram, R. Joobani
 April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM PressFull text available: [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The

interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

4 GPGPU: general purpose computation on graphics hardware

 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(63.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

5 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 A framework to support multiple query optimization for complex mining tasks

 Ruoming Jin, Kaushik Sinha, Gagan Agrawal
August 2005 **Proceedings of the 6th international workshop on Multimedia data mining: mining integrated media and complex data MDM '05**

Publisher: ACM Press


Full text available:  [pdf\(464.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

With an increasing use of data mining tools and techniques, we envision that a Knowledge Discovery and Data Mining System (KDDMS) will have to support and optimize for the following scenarios: 1) *Sequence of Queries*: A user may analyze one or more datasets by issuing a sequence of related complex mining queries, and 2) *Multiple Simultaneous Queries*: Several users may be analyzing a set of datasets concurrently, and may issue related complex queries. This paper presents a systematic ...

7 Distributed query evaluation on semistructured data

 Dan Suciu
March 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(689.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Semistructured data is modeled as a rooted, labeled graph. The simplest kinds of queries on such data are those which traverse paths described by regular path expressions. More complex queries combine several regular path expressions, with complex data restructuring, and with sub-queries. This article addresses the problem of efficient query evaluation on distributed, semistructured databases. In our setting, the nodes of the database are distributed over a fixed number of sites, and the ...

Keywords: Distributed evaluation, nested queries, parallel complexity, regular expressions, semistructured data

8 Level set and PDE methods for computer graphics

 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press


Full text available:  pdf(17.07 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

9 The relational model for database management: version 2

E. F. Codd
January 1990 Book


Publisher: Addison-Wesley Longman Publishing Co., Inc.

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From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

10 Research sessions: new styles of XML: Lazy query evaluation for Active XML

 Serge Abiteboul, Omar Benjelloun, Bogdan Cautis, Ioana Manolescu, Tova Milo, Nicoleta Preda

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**

Publisher: ACM Press

Full text available:  pdf(282.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we study query evaluation on Active XML documents (AXML for short), a new generation of XML documents that has recently gained popularity. AXML documents are XML documents whose content is given partly extensionally, by explicit data elements, and partly intensionally, by embedded calls to Web services, which can be invoked to generate data. A major challenge in the efficient evaluation of queries over such documents is to detect which calls may bring data that is relevant for the ...

11 A piggyback method to collect statistics for query optimization in database management systems

Qiang Zhu, Brian Dunkel, Nandit Soparkar, Suyun Chen, Berni Schiefer, Tony Lai
November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research CASCON '98**

Publisher: IBM Press

Full text available:  pdf(328.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A database management system (DBMS) performs query optimization based on statistical information about data in the underlying data-base. Out-of-date statistics may lead to inefficient query processing in the system. Existing solutions to this problem have some drawbacks such as heavy administrative burden, high system load, and tardy updates. To overcome these drawbacks, our new approach, called the piggyback method, is proposed in this paper. The key idea is to piggyback some additional retrieval ...

Keywords: access method, cost estimation, database management system, piggyback analysis, query optimization, statistics collection

12 Research sessions: query optimization: Robust query processing through progressive optimization



Volker Markl, Vijayshankar Raman, David Simmen, Guy Lohman, Hamid Pirahesh, Miso Cilimdžić

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**

Publisher: ACM Press

Full text available: pdf(331.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Virtually every commercial query optimizer chooses the best plan for a query using a cost model that relies heavily on accurate cardinality estimation. Cardinality estimation errors can occur due to the use of inaccurate statistics, invalid assumptions about attribute independence, parameter markers, and so on. Cardinality estimation errors may cause the optimizer to choose a sub-optimal plan. We present an approach to query processing that is extremely robust because it is able to detect and re ...

13 Research sessions: Research 10: New applications: Querying business processes

Catriel Beeri, Anat Eyal, Simon Kamenkovich, Tova Milo

September 2006 **Proceedings of the 32nd international conference on Very large data bases VLDB '06**

Publisher: VLDB Endowment

Full text available: pdf(598.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present in this paper BP-QL, a novel query language for querying business processes. The BP-QL language is based on an intuitive model of business processes, an abstraction of the emerging BPEL (Business Process Execution Language) standard. It allows users to query business processes visually, in a manner very analogous to how such processes are typically specified, and can be employed in a distributed setting, where process components may be provided by distinct providers(peers).We describe ...

14 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems



Gordon B. Davis, John T. Gorgone, J. Daniel Cougar, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(7.24 MB) Additional Information: [full citation](#), [cited by](#)

15 Research session: streams and stream-based processing: Sketching streams through the net: distributed approximate query tracking

Graham Cormode, Minos Garofalakis

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: pdf(273.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Emerging large-scale monitoring applications require continuous tracking of complex data-analysis queries over collections of physically-distributed streams. Effective solutions have to be simultaneously space/time efficient (at each remote monitor site), communication efficient (across the underlying communication network), and provide continuous, guaranteed-quality approximate query answers. In this paper, we propose

novel algorithmic solutions for the problem of continuously tracking a broad ...

16 Special issue in parallelism in database systems: Parallel query processing with zigzag trees

Mikal Ziane, Mohamed Zaït, Pascale Borla-Salamet

July 1993 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 2 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(1.39 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this article, we describe our approach to the compile-time optimization and parallelization of queries for execution in DBS3 or EDS. DBS3 is a shared-memory parallel database system, while the EDS system has a distributed-memory architecture. Because DBS3 implements a parallel dataflow execution model, this approach applies to both architectures. Using randomized search strategies enables the exploration of a search space large enough to include zigzag trees, which are intermediate between le ...

Keywords: cost function, fragmentation, pipeline, search space

17 Saturn: A scalable framework for error detection using Boolean satisfiability



Yichen Xie, Alex Aiken

May 2007 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 29 Issue 3

Publisher: ACM Press

Full text available:  pdf(742.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article presents Saturn, a general framework for building precise and scalable static error detection systems. Saturn exploits recent advances in Boolean satisfiability (SAT) solvers and is path sensitive, precise down to the bit level, and models pointers and heap data. Our approach is also highly scalable, which we achieve using two techniques. First, for each program function, several optimizations compress the size of the Boolean formulas that model the control flow and data flow and ...

Keywords: Boolean satisfiability, Program analysis, error detection

18 Optimizing multiple dimensional queries simultaneously in multidimensional databases

Weifa Liang, Maria E. Orlowska, Jeffrey X. Yu

February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 3-4

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(269.57 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Some significant progress related to multidimensional data analysis has been achieved in the past few years, including the design of fast algorithms for computing datacubes, selecting some precomputed group-bys to materialize, and designing efficient storage structures for multidimensional data. However, little work has been carried out on multidimensional query optimization issues. Particularly the response time (or evaluation cost) for answering several related dimensional queries simultaneous ...


Keywords: Data warehousing, MDDBs, Multiple dimensional query optimization, OLAP, Query modeling

19 Cryptography and data security

Dorothy Elizabeth Robling Denning

January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available:  pdf(19.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...


20 [Query evaluation techniques for large databases](#)



Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  pdf(9.37 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...





Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

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1 [Exploiting perception in high-fidelity virtual environments: Exploiting perception in high-fidelity virtual environments](#)


Additional presentations from the 24th course are available on the citation page

 Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez
 July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**
Publisher: ACM Press
 Full text available: [pdf\(5.07 MB\)](#) [mov\(68.6 MIN\)](#) Additional Information: [full citation](#), [appendices and supplements](#),
[abstract](#), [references](#), [cited by](#), [index terms](#)

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques in collaboration, graphical, auditory, and haptic rendering. We aim to show how human perception is exploited to achieve realism in high fidelity environments within the constraints of available finite computational resources. In this course w ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality



2 [Collision detection and proximity queries](#)


 Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson
 August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
 Full text available: [pdf\(11.22 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate the methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.



3 [Special issue: AI in engineering](#)


 D. Sriram, R. Joobbani
 April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
 Full text available: [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in

the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

4 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 Level set and PDE methods for computer graphics

 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  pdf(17.07 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

6 GPGPU: general purpose computation on graphics hardware

 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  pdf(63.03 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)


The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

7 The relational model for database management: version 2

E. F. Codd

January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available:  pdf(28.61 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)


From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

8 Cryptography and data security

Dorothy Elizabeth Robling Denning

January 1982 Book


Publisher: Addison-Wesley Longman Publishing Co., Inc.Full text available:  pdf(19.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**From the Preface (See Front Matter for full Preface)**

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

9 Distributed query evaluation on semistructured data

Dan Suciu

March 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 1**Publisher:** ACM PressFull text available:  pdf(689.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Semistructured data is modeled as a rooted, labeled graph. The simplest kinds of queries on such data are those which traverse paths described by regular path expressions. More complex queries combine several regular path expressions, with complex data restructuring, and with sub-queries. This article addresses the problem of efficient query evaluation on distributed, semistructured databases. In our setting, the nodes of the database are distributed over a fixed number of sites, and the ...

Keywords: Distributed evaluation, nested queries, parallel complexity, regular expressions, semistructured data

10 Sensor networks: Fundamental scaling laws for energy-efficient storage and querying in wireless sensor networks

Joon Ahn, Bhaskar Krishnamachari

May 2006 **Proceedings of the seventh ACM international symposium on Mobile ad hoc networking and computing MobiHoc '06****Publisher:** ACM PressFull text available:  pdf(220.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We use a constrained optimization framework to derive fundamental scaling laws for both unstructured sensor networks (which use blind sequential search for querying) and structured sensor networks (which use efficient hash-based querying). We find that the scalability of a sensor network's performance depends upon whether or not the increase in energy and storage resources with more nodes is outweighed by the concomitant application-specific increase in event and query loads. Let m be the ...

Keywords: energy efficiency, modeling, performance analysis, querying, scalability, theory, wireless sensor networks

11 A framework to support multiple query optimization for complex mining tasks

Ruoming Jin, Kaushik Sinha, Gagan Agrawal

August 2005 **Proceedings of the 6th international workshop on Multimedia data mining: mining integrated media and complex data MDM '05****Publisher:** ACM PressFull text available:  pdf(464.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

With an increasing use of data mining tools and techniques, we envision that a Knowledge Discovery and Data Mining System (KDDMS) will have to support and optimize for the following scenarios: 1) *Sequence of Queries*: A user may analyze one or more datasets by issuing a sequence of related complex mining queries, and 2) *Multiple Simultaneous Queries*: Several users may be analyzing a set of datasets concurrently, and may issue related complex queries. This paper presents a systematic ...

12 Research sessions: Research 10: New applications: Querying business processes

Catriel Beerl, Anat Eyal, Simon Kamenkovich, Tova Milo


September 2006 **Proceedings of the 32nd international conference on Very large data bases VLDB '06**

Publisher: VLDB Endowment

Full text available:  [pdf\(598.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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13 Research sessions: new styles of XML: Lazy query evaluation for Active XML

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14 Optimization of constrained frequent set queries with 2-variable constraints

 Laks V. S. Lakshmanan, Raymond Ng, Jiawei Han, Alex Pang

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.65 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Currently, there is tremendous interest in providing ad-hoc mining capabilities in database management systems. As a first step towards this goal, in [15] we proposed an architecture for supporting constraint-based, human-centered, exploratory mining of various kinds of rules including associations, introduced the notion of constrained frequent set queries (CFQs), and developed effective pruning optimizations for CFQs with 1-variable (1-var) constraints. While 1-var constraints a ...

15 MiniCon: A scalable algorithm for answering queries using views

Rachel Pottinger, Alon Halevy

September 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 2-3

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(212.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The problem of answering queries using views is to find efficient methods of answering a query using a set of previously materialized views over the database, rather than accessing the database relations. The problem has received significant attention because

of its relevance to a wide variety of data management problems, such as data integration, query optimization, and the maintenance of physical data independence. To date, the performance of proposed algorithms has received very little attent ...

Keywords: Data integration, Materialized views, Query optimization, Web and databases

16 Computing graphical queries over XML data



Sara Comai, Ernesto Damiani, Piero Fraternali

October 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(707.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid evolution of XML from a mere data exchange format to a universal syntax for encoding domain-specific information raises the need for new query languages specifically conceived to address the characteristics of XML. Such languages should be able not only to extract information from XML documents, but also to apply powerful transformation and restructuring operators, based on a well-defined semantics. Moreover, XML queries should be natural to write and understand, as nontechnical person ...

Keywords: Document restructuring, graphical query languages, semantics

17 Saturn: A scalable framework for error detection using Boolean satisfiability



Yichen Xie, Alex Aiken

May 2007 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(742.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: Boolean satisfiability, Program analysis, error detection

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Graham Cormode, Minos Garofalakis

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

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Qiang Zhu, Brian Dunkel, Nandit Soparkar, Suyun Chen, Berni Schiefer, Tony Lai

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Keywords: access method, cost estimation, database management system, piggyback analysis, query optimization, statistics collection

20 [IS '97: model curriculum and guidelines for undergraduate degree programs in information systems](#)

Gordon B. Davis, John T. Gorgone, J. Daniel Cougar, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1**Publisher:** ACM PressFull text available:  pdf(7.24 MB) Additional Information: [full citation](#), [cited by](#)

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